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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/886,395 06/22/2001		Christophe Dauga	P 0281180 B00/1600US	4258		
909	7590	01/19/2005		EXAMINER		
PILLSBUF P.O. BOX 1		HROP, LLP	SHAW, SHAWNA JEANNINE			
MCLEAN,		2	ART UNIT	PAPER NUMBER		
,				3737	3737	
	*					

DATE MAILED: 01/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/886,395	DAUGA, CHRISTOPHE					
Office Action Summary	Examiner	Art Unit					
	Shawna J. Shaw	3737					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply	/ 10 OFT TO EVOIDE - MONTH	(O) 500M					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status		• • • • • • • • • • • • • • • • • • •					
1)⊠ Responsive to communication(s) filed on 04 Ja	anuary 2005.	•					
	action is non-final.						
3) Since this application is in condition for allowar	<u></u>						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-12 and 15-26 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-12 and 15-26</u> is/are rejected.							
7)☐ Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.	•					
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>22 June 2001 and 03 J</u>		r b)☐ objected to by the					
Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	- ', '	* *					
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3.☐ Copies of the certified copies of the prior	_ •	ed in this National Stage					
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D						
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	ction Summary Pa	art of Paper No./Mail Date 01132005					

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: On page 1 line 9 of the specification, it appears that "land" should be –kind--. Appropriate correction is required.

Claim Interpretation/Definitions

2. The examiner understands white light to be substantially the same as the solar spectrum. See specification page 8 lines 5-7.

Claim Objections

3. Claims 21-23 are objected to because of the following informalities: a rotatable or electrical switching polarization analyzer is inconsistent with the polarizing splitter cube as optionally set forth in claim 16. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-12 and 15-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bazin et al. in view of Guiolet et al.

Regarding claims 1-12 and 15-26, Bazin et al. disclose a polarizing splitter cube (3s, 3d), a photodetector (5, 7) and a processing unit (E) "arranged" (i.e., configured) to calculate intensity (I) and brightness. See fig. 1 and col. 3 lines 28-55 and 59-64. Bazin

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differs from the claimed invention in that a digital image acquisition device and white light source are not explicitly addressed. In the same field of endeavor, Guiolet et al. disclose that a white light source and CCD detector may be used instead of a monochromatic light source and photomultipliers to acquire instantaneous measurements across the spectrum (col. 8 lines 21-27). It would have therefore been obvious at the time the invention was made to a person of ordinary skill in the art to replace the light source and photodetectors of Bazin et al. with a white light source and digital detectors such as CCD's as taught by Guiolet et al. to obtain faster measurement times and therefore reduce the duration of the procedure. Further regarding claims 1, 2, 6-8, 21-23 and 26, Bazin et al. uses polarizing splitter cubes instead of a single polarization analyzer element constructed to alternately transmit a crossed polarization state and a parallel polarization state. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to use either two polarization beam-splitter cubes, a rotatable polarization analyzer or an electro-optic switchable analyzer because Applicant has not disclosed that either type of analyzer provides an advantage, is used for a particular purpose, or solves a stated problem (see specification of the present invention page 9 lines 7-11 and page 9 line 35 - page 10 line 15). One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with the two polarizing beam-splitter cubes of Bazin et al. because all are able to effectively separate the reflected light (brightness) from the backscattered light (color). Further regarding claim 25, it would have been obvious at the time the invention was made to a person of ordinary skill in the art to

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automate the process of Bazin et al. in view of Guiolet et al. (via computer programmable code) as such automation of a process is well known.

Response to Amendment

5. The finality of the previous office action is withdrawn in view of newly discovered references to Bazin et al. and Guiolet et al. (both to the same asignee of record).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawna J. Shaw whose telephone number is (571) 272-4743. The examiner can normally be reached on 6:45 a.m. - 3:15 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on (571) 272-4956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business_Center (EBC) at 866-217-9197 (toll-free).

Shawna J. Shaw ` Primary Examiner

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